

YMG series circular electrical connector

YMG series is extended from YM series, designed as bayonet coupling, springtac socket and solder contact.

Part number

	YMG	16	T	3	K ₁	P ₄₀	X
Basic series							
Shell size							
16, 18, 20, 22, 24, 27, 30, 33, 36, 39							
Type of plug and receptacle							
T = Plug							
F = Square flange receptacle							
Number of contact							
03 ~ 62							
Type of contact							
Z ₁ = Pin with gold plating							
K ₁ = Socket with gold plating							
Formation							
D ₄₀ = Short shell without thread, stainless steel passivated							
P ₄₀ = Stainless steel passivated with thread							
Orientation							
N, W, X, Y, Z							
N may omit.							

Performance specification

Operating temperature: -55 °C ~ +200 °C

Relative humidity: at 60 °C, 95%

Environment-resistance: salt spray test 1000 hours

Shell: stainless steel passivated

Insulator: thermosetting material

Contact: cooper-alloy with gold plating

Vibration: at 10 ~ 2000 Hz, acceleration: 196 m/s²

Shock: acceleration 980 m/s²

Endurance: ≥ 1000 cycles

Electrical performance

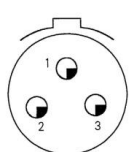
Contact resistance and rated current

Contact No. (mm)	Resistance (mΩ)	Rated current (A)	Inside diameter (mm)
Φ 1.0	5.00	5	Φ 1.3
Φ 1.5	2.50	10	Φ 1.8
Φ 3.0	0.75	40	Φ 3.4

Rated voltage, Withstanding voltage and Insulation resistance

Operating environment	Rated voltage (v)	Withstanding voltage (v)	Insulation resistance (MΩ)
Normal	500	1500	≥ 5000
Hot and humid	500	1125	≥ 100
Low pressure (1 kPa)	250	300	—

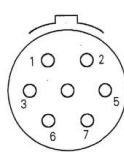
Contact layout



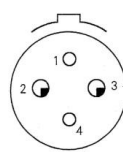
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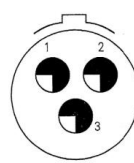
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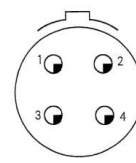
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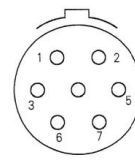
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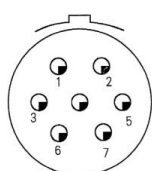
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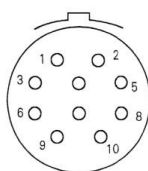
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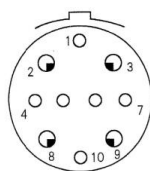
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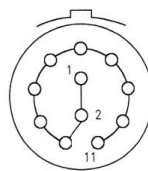
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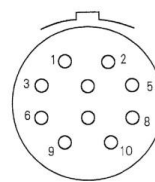
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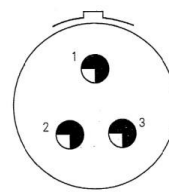
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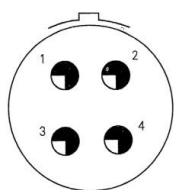
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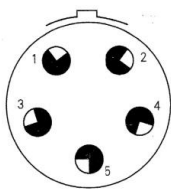
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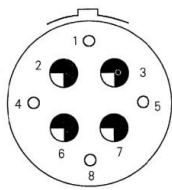
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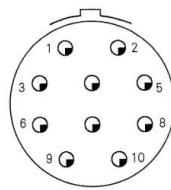
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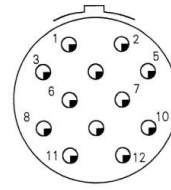
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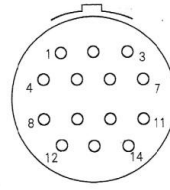
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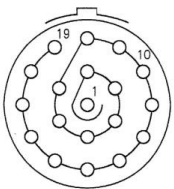
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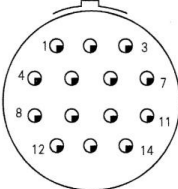
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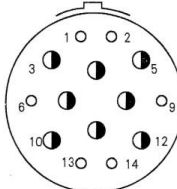
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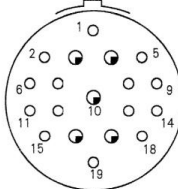
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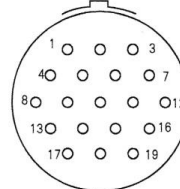
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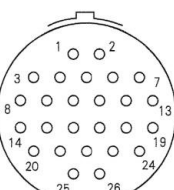
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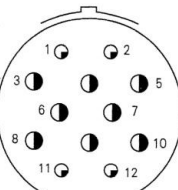
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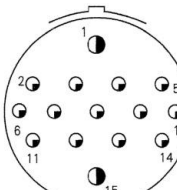
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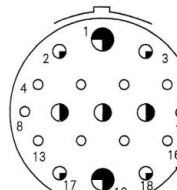
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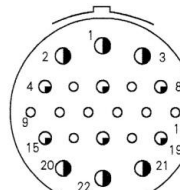
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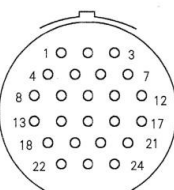
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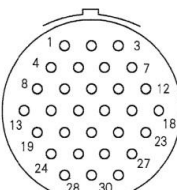
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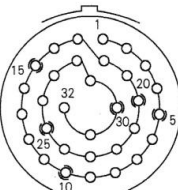
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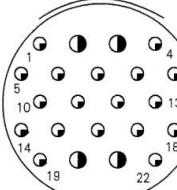
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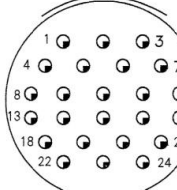
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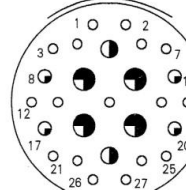
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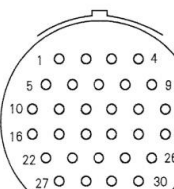
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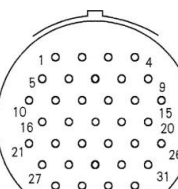
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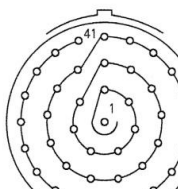
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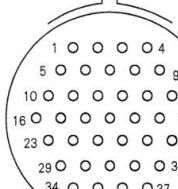
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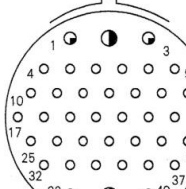
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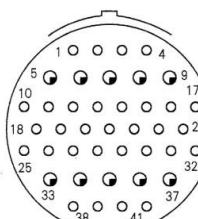
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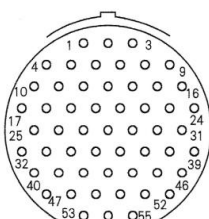
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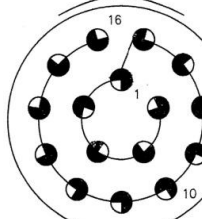
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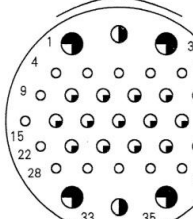
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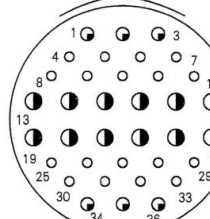
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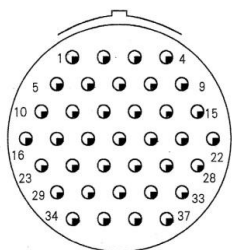
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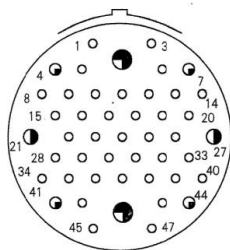
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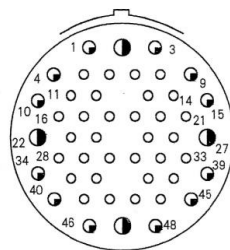
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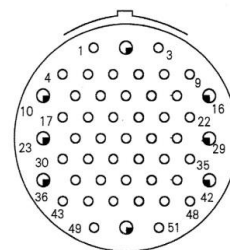
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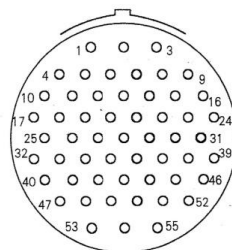
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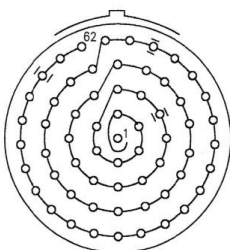
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39-51



39-55



39-62

○ $\Phi 1.0$

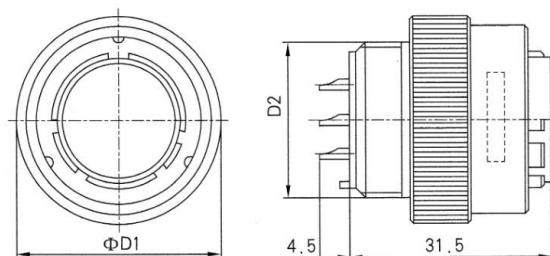
◐ $\Phi 1.5$

◑ $\Phi 2.0$

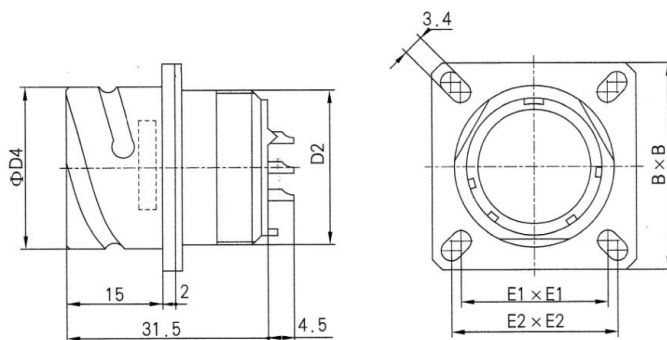
◒ $\Phi 3.0$

Shell size

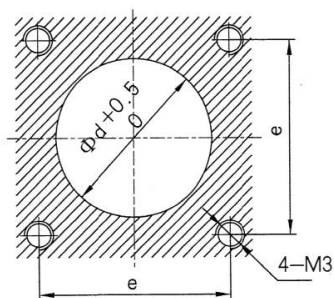
Plug



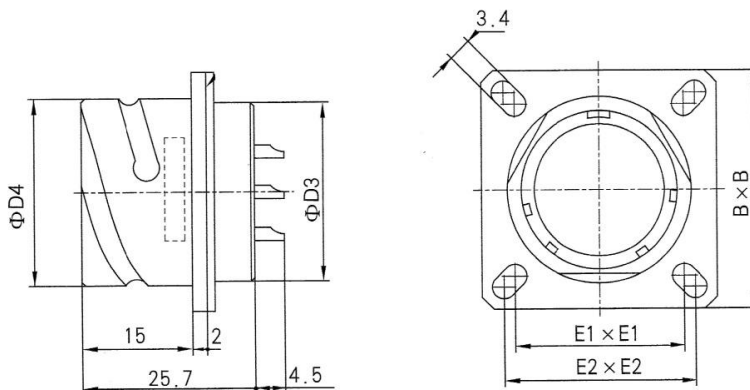
Receptacle (P₄₀)



Hole dimensions on receptacle panel



Receptacle (D₄₀)



Shell size	D1	D2	D3	D4	B	E1	E2	d	e
16	24.0	M16 × 1	16	17.2	25.0	16.0	19.0	16.5	16.0 ~ 19.0
18	26.0	M18 × 1	18	19.2	27.0	18.0	21.5	18.5	18.0 ~ 21.5
20	28.0	M20 × 1	20	21.2	28.0	20.0	22.5	20.5	20.0 ~ 22.5
22	30.0	M22 × 1	22	23.2	30.0	21.0	24.0	22.5	21.0 ~ 24.0
24	32.0	M24 × 1	24	25.2	32.0	23.0	26.0	24.5	23.0 ~ 26.0
27	35.0	M27 × 1	27	28.2	34.5	25.0	28.0	27.5	25.0 ~ 28.0
30	38.0	M30 × 1	30	31.2	36.0	27.0	30.5	30.5	27.0 ~ 30.5
33	41.0	M33 × 1	33	34.2	39.0	29.0	32.0	33.5	29.0 ~ 32.0
36	44.0	M36 × 1	36	37.2	42.0	32.0	35.0	36.5	32.0 ~ 35.0
39	47.0	M39 × 1	39	40.2	45.0	35.0	38.0	39.5	35.0 ~ 38.0